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| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | Attorney Docket Number | 4239-73127-03 |
| | Application Number | 10/535,521 |
| | Filing Date | May 18, 2005 |
| | First Named Inventor | Emmert-Buck |
| | Art Unit | 1637 |
| | Examiner Name | Heather Calamita |

U.S. PATENT DOCUMENTS

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| Examiner's Initials* | Cite No. (optional) | Number | Publication Date | Name of Applicant or Patentee |
|----------------------|---------------------|--------------|------------------|-------------------------------|
| /HC/ | | 2002/0012920 | Jan. 31, 2002 | Gardner <i>et al.</i> |
| | | 3,620,947 | Nov. 16, 1971 | Allen <i>et al.</i> |
| | | 4,176,069 | Nov. 1979 | Metz <i>et al.</i> |
| | | 4,337,131 | June 29, 1982 | Vesterberg |
| | | 4,613,567 | Sept. 23, 1986 | Yasoshima <i>et al.</i> |
| | | 4,716,101 | Dec. 29, 1987 | Thompson <i>et al.</i> |
| | | 4,795,562 | Jan. 3, 1989 | Walsh |
| | | 4,840,714 | Jun. 20, 1989 | Littlehales |
| | | 4,874,691 | Oct. 1989 | Chandler |
| | | 5,047,135 | Sept. 10, 1991 | Nieman |
| | | 5,057,438 | Oct. 15, 1991 | Imai <i>et al.</i> |
| | | 5,078,853 | Jan. 07, 1992 | Manning <i>et al.</i> |
| | | 5,155,049 | Oct. 13, 1992 | Kauvar <i>et al.</i> |
| | | 5,173,159 | Dec. 22, 1992 | Dutertre |
| | | 5,238,651 | Aug. 24, 1993 | Chuba |
| | | 5,332,484 | July 26, 1994 | Hilt |
| /HC/ | | 5,387,325 | Feb. 07, 1995 | Opplt |

| | | | |
|---------------------|--------------------|------------------|------------|
| EXAMINER SIGNATURE: | /Heather Calamita/ | DATE CONSIDERED: | 03/20/2007 |
|---------------------|--------------------|------------------|------------|

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| Examiner's Initials* | Cite No. (optional) | Number | Publication Date | Name of Applicant or Patentee |
|----------------------|---------------------|-----------|------------------|-------------------------------|
| /HC/ | | 5,427,664 | June 27, 1995 | Stoev <i>et al.</i> |
| | | 5,438,128 | Aug. 1995 | Nieuwkerk <i>et al.</i> |
| | | 5,486,452 | Jan. 23, 1996 | Gordon <i>et al.</i> |
| | | 5,650,055 | July 22, 1997 | Margolis |
| | | 5,679,310 | Oct. 21, 1997 | Manns |
| | | 5,716,508 | Feb. 10, 1998 | Starr |
| | | 5,741,639 | April 21, 1998 | Ensing <i>et al.</i> |
| | | 5,843,657 | Dec. 1, 1998 | Liotta <i>et al.</i> |
| | | 5,993,627 | Nov. 30, 1999 | Anderson <i>et al.</i> |
| | | 6,013,165 | Jan. 11, 2000 | Wiktorowicz <i>et al.</i> |
| | | 6,064,754 | May 16, 2000 | Parekh <i>et al.</i> |
| | | 6,087,134 | July 11, 2000 | Saunders |
| | | 6,135,942 | Oct. 24, 2000 | Leptin |
| /HC/ | | 6,232,067 | May 15, 2001 | Hunkapiller <i>et al.</i> |

FOREIGN PATENT DOCUMENTS

| Examiner's Initials* | Cite No. (optional) | Country | Number | Publication Date | Name of Applicant or Patentee |
|----------------------|---------------------|---------|------------|------------------|-------------------------------|
| /HC/ | | EPC | EP 0525723 | Feb. 3, 1993 | |

| | | | |
|---------------------|--------------------|------------------|------------|
| EXAMINER SIGNATURE: | /Heather Calamita/ | DATE CONSIDERED: | 03/20/2007 |
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FOREIGN PATENT DOCUMENTS

| Examiner's Initials* | Cite No. (optional) | Country | Number | Publication Date | Name of Applicant or Patentee |
|----------------------|---------------------|---------|-------------|------------------|-------------------------------|
| /HC/ | | EPC | EP 0139373 | May 2, 1985 | |
| /HC/ | | PCT | WO 00/45168 | Aug. 3, 2000 | Bienvenut <i>et al.</i> |
| /HC/ | | PCT | WO 98/20353 | May 14, 1998 | McGrath <i>et al.</i> |
| /HC/ | | PCT | WO 98/41863 | Sept. 24, 1998 | Clatch |
| /HC/ | | PCT | WO 99/67647 | Dec. 29, 1999 | Chen |

| Examiner's Initials* | Cite No. (optional) | OTHER DOCUMENTS |
|----------------------|---------------------|---|
| /HC/ | | Braun and Abraham, "Modified diffusion blotting for rapid and efficient protein transfer with PhastSystem," <i>Electrophoresis</i> 10:249-253 (1989) |
| /HC/ | | Cleeve <i>et al.</i> , "Isoelectric focusing of human tissue alkaline phosphatase isoenzymes in agarose gel," <i>Clinica Chimica Acta</i> , 137:333-340 (1984) |
| /HC/ | | Demczuk <i>et al.</i> , "Identification and analysis of all components of a gel retardation assay by combination with immunoblotting," <i>Proc. Natl. Acad. Sci. USA</i> 90:2574-2578 (April 1993) |
| /HC/ | | Englert <i>et al.</i> , "Layered Expression Scanning: Rapid Molecular Profiling of Tumor Samples," <i>Cancer Res.</i> 60:1526-1530 (March 15, 2000) |
| /HC/ | | Englert <i>et al.</i> , "Molecular profiling of human cancer: New opportunities," <i>Curr. Opin. Mol. Therap.</i> 1(6):712-719 (1999) |
| /HC/ | | Heukeshoven and Dernick, "Effective blotting of ultrathin polyacrylamide gels anchored to a solid matrix," <i>Electrophoresis</i> 16:748-756 (1995) |
| /HC/ | | Inczédy-Marcsek <i>et al.</i> "Extraction of proteins within ultrathin-layer polyacrylamide electrophoresis (SDS-PAGE) and isoelectric focusing (PAGIF) of cryostat sections and tissue culture specimens," <i>Acta histochemica, Suppl.-Band XXXVI</i> , S. 377-394 (1998) |

| | | | |
|---------------------|-------------------|------------------|------------|
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| Examiner Initials* | Cite No. (optional) | OTHER DOCUMENTS |
|--------------------|------------------------|---|
| /HC/ | | Legocki and Verma, "Multiple Immunoreplica Technique: Screening for Specific Proteins with a Series of Different Antibodies Using One Polyacrylamide Gel," <i>Anal. Biochem.</i> 111:385-392 (1981) |
| /HC/ | | Manabe <i>et al.</i> , "An Electroblotting Apparatus for Multiple Replica Technique and Identification of Human Serum Proteins on Micro Two-Dimensional Gels," <i>Anal. Biochem.</i> 143:39-45 (1984) |
| /HC/ | | Neumann and Müllner, "Two replica blotting methods for fast immunological analysis of common proteins in two-dimensional electrophoresis," <i>Electrophoresis</i> 19:752-757 (1998) |
| /HC/ | | Olsen and Wiker, "Diffusion blotting for rapid production of multiple identical imprints from sodium dodecyl sulfate polyacrylamide gel electrophoresis on a solid support," <i>J. Immunol. Methods</i> 220:77-84 (1998) |
| /HC/ | | Pappalardo <i>et al.</i> , "Microdissection, microchip arrays, and molecular analysis of tumor cells (Primary and Metastases)," <i>Seminars in Radiation Oncology</i> 8(3):217-223 (1998) |
| /HC/ | | Sanchez <i>et al.</i> , "Simultaneous analysis of cyclin and oncogene expression using multiple monoclonal antibody immunoblots," <i>Electrophoresis</i> 18:638-641 (1997) |
| /HC/ | | Schumacher and Trudrung, "Direct Tissue Isoelectric Focusing on Mini Ultrathin Polyacrylamide Gels followed by Subsequent Western Blotting, Enzyme Detection, and Lectin Labeling as a Tool for Enzyme Characterization in Histochemistry," <i>Analytical Biochemistry</i> , 194:256-258 (1991) |
| /HC/ | | Schumacher <i>et al.</i> , "Direct tissue isoelectric focusing on ultrathin polyacrylamide gels. Applications in enzyme, lectin and immunohistochemistry," <i>Histochemical Journal</i> , 22:433-438 (1990) |
| /HC/ | | van der Sluis <i>et al.</i> , "Immunochemical detection of peptides and proteins on press-blots after direct tissue gel isoelectric focusing," <i>Electrophoresis</i> , 9:654-661 (1988) |

| | | | |
|------------------------|--------------------|---------------------|------------|
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|--|-------------|--|--|----------------------|---------------------------------|
| PTO/SB/08a / PTO/SB/08b | | | | Complete if Known | |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | | | | Application Number | To Be Assigned 10/535521 |
| | | | | Filing Date | Herewith (May 18, 2005) |
| | | | | First Named Inventor | Emmert-Buck, Michael |
| | | | | Art Unit | To Be Assigned |
| | | | | Examiner Name | To Be Assigned |
| Sheet 1 | of 2 | Attorney Docket Number 03514-1116 | | | |

U.S. PATENT DOCUMENTS

| Examiner's Initial | Cite No. | Document Number Patent Number | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|--------------------|----------|----------------------------------|--------------------------------|---|---|
| /HC/ | AA1 | US 6,221,600 | 04-24-2001 | McLeod <i>et al.</i> | |
| | AB1 | US 6,303,308 | 10-16-2001 | Halle <i>et al.</i> | |
| | AC1 | US 6,461,814 | 10-08-2002 | Spinella | |
| | AD1 | US 2004/0053326 | 03-18-2004 | Emmert-Buck <i>et al.</i> | |
| | AE1 | US 2004/0081987 | 04-29-2004 | Knezevic <i>et al.</i> | |
| /HC/ | AF1 | US 2004/0081979 | 04-29-2004 | Knezevic <i>et al.</i> | |

FOREIGN PATENT DOCUMENTS

| Examiner's Initial | Cite No. | Foreign Patent Document Country Code-Number-Kind Code (if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T |
|--------------------|----------|--|--------------------------------|---|---|---|
| /HC/ | AM1 | EP 1174521 | 01-23-2002 | Tosoh Corporation | | |
| | AN1 | WO 9832847 | 01-22-1998 | Velculescu <i>et al.</i> | | |
| | AO1 | WO 0077214 | 12-21-2000 | Velculescu <i>et al.</i> | | |
| /HC/ | AP1 | WO 0138577 | 05-31-2001 | Velculescu <i>et al.</i> | | |

NON-PATENT LITERATURE DOCUMENTS

| | | | |
|--------------------|----------|--|---|
| Examiner's Initial | Cite No. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city, and/or country where published | T |
| /HC/ | AR1 | Aldaz, C.M. <i>et al.</i> , (2002) "SERIAL ANALYSIS OF GENE EXPRESSION IN NORMAL P53 NULL MAMMARY EPITHELIUM," Oncogene 21:6366-6376 | |
| | AS1 | Anisimov, S. <i>et al.</i> (2002). "A QUANTITATIVE AND VALIDATED SAGE TRANSCRIPTOME REFERENCE FOR ADULT MOUSE HEART," Genomics 80:213-222 | |
| | AT1 | Bono, H. <i>et al.</i> (2002) "FUNCTIONAL TRANSCRIPTOMES: COMPARATIVE ANALYSIS OF BIOLOGICAL PATHWAYS AND PROCESSES IN EUKARYOTES TO INFER GENETIC NETWORKS AMONG TRANSCRIPTS," Curr Opin Struct Biol. 12:355-361 | |
| | AU1 | Curtis, R.K. <i>et al.</i> (2002) "CONTROL ANALYSIS OF DNA MICROARRAY EXPRESSION DATA," Molec. Biol. Rep. 29:67-71 | |
| | AV1 | Devaux, F. (2001) "TRANSCRIPTOMES, TRANSCRIPTION ACTIVATORS AND MICROARRAYS," FEBS Lett. 498:140-4 | |
| | AW1 | Evans, S.J. <i>et al.</i> (2002) "EVALUATION OF AFFYMETRIX GENE CHIP SENSITIVITY IN RAT HIPPOCAMPAL TISSUE USING SAGE ANALYSIS. SERIAL ANALYSIS OF GENE EXPRESSION," Eur. J. Neurosci. 16:409-13 | |
| | AX1 | Klein, C.A. <i>et al.</i> (2002) "COMBINED TRANSCRIPTOME AND GENOME ANALYSIS OF SINGLE MICROMETASTATIC CELLS," Nat. Biotechnol. 20:387-92 | |
| /HC/ | AY1 | Li, S. <i>et al.</i> (2001) "COMPARATIVE GENOME-SCALE ANALYSIS OF GENE EXPRESSION PROFILES IN T CELL LYMPHOMA CELLS DURING MALIGNANT PROGRESSION USING A COMPLEMENTARY DNA MICROARRAY," Amer. J. Pathol. 158:1231-1237 | |

| | | | |
|--|--------------------|-----------------|------------|
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| | | | | Examiner Name | To Be Assigned |
| Sheet | 2 | of | 2 | Attorney Docket Number | 03514-1116 |

| U.S. PATENT DOCUMENTS | | | | | |
|-----------------------|----------|----------------------------------|--------------------------------|---|---|
| Examiner's Initial | Cite No. | Document Number Patent Number | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| /HC/ | AA2 | US 20050064486 | 2005-03-24 | Ishiguro <i>et al.</i> | |
| /HC/ | AB2 | US 20030027142 | 2003-02-06 | Ishiguro <i>et al.</i> | |
| | AC2 | | | | |
| | AD2 | | | | |

| FOREIGN PATENT DOCUMENTS | | | | | |
|--------------------------|----------|--|--------------------------------|---|---|
| Examiner's Initial | Cite No. | Foreign Patent Document Country Code-Number-Kind Code (if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| /HC/ | AM2 | WO 0210449 | 02-07-2002 | Shoshan <i>et al.</i> | |
| | AN2 | WO 0246465 | 06-13-2002 | White <i>et al.</i> | |
| /HC/ | AO2 | WO 0268466 | 09-06-2002 | White <i>et al.</i> | |
| | AP2 | | | | |

| NON-PATENT LITERATURE DOCUMENTS | | | | | |
|---------------------------------|----------|--|--|--|--|
| Examiner's Initial | Cite No. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city, and/or country where published | | | |
| /HC/ | AR2 | Pipér, M.D.W. <i>et al.</i> (2002) "REPRODUCIBILITY OF OLIGONUCLEOTIDE MICROARRAY TRANSCRIPTOME ANALYSES: AN INTERLABORATORY COMPARISON USING CHEMOSTAT CULTURES OF SACCHAROMYCES CEREVISIAE," <i>J. Biol. Chem.</i> 277:37001-37008 | | | |
| | AS2 | Piquemal, D <i>et al.</i> (2002) "TRANSCRIPTOME ANALYSIS OF MONOCYTIC LEUKEMIA CELL DIFFERENTIATION," <i>Genomics</i> . 2002 Sep;80(3):361-71 | | | |
| | AT2 | Saha, S. <i>et al.</i> (2002) "USING THE TRANSCRIPTOME TO ANNOTATE THE GENOME," <i>Nat. Biotechnol.</i> 20:508-512 | | | |
| | AU2 | Su, A.I. <i>et al.</i> (2002) "LARGE-SCALE ANALYSIS OF THE HUMAN AND MOUSE TRANSCRIPTOMES," <i>Proc. Natl. Acad. Sci U S A.</i> 99:4465-70 | | | |
| /HC/ | AV2 | Swaroop, A. <i>et al.</i> "TRANSCRIPTOME ANALYSIS OF THE RETINA," <i>Genome Biol.</i> 2002 Jul 30;3(8):REVIEWS1022. Epub 2002 Jul 30 | | | |
| | AW2 | | | | |
| | AX2 | | | | |
| | AY2 | | | | |
| | AZ2 | | | | |

| | | | |
|--|--------------------|-----------------|------------|
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